



DEPARTMENT OF THE NAVY  
SOUTHWEST DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
1220 PACIFIC HIGHWAY  
SAN DIEGO, CA 92132-5190

M60050.000683  
MCAS EL TORO  
SSIC #5090.3

5090  
Ser 06CC.DG/0105  
23 January, 2001

Mr. John Broderick  
California Regional Water Quality Control Board  
Santa Anna Region  
3737 Main Street, Suite 500  
Riverside, CA 92501-3339

Subj: MCAS El Toro IRP Site 16 Conference Call Minutes of 09 January 2001

Dear Mr. Broderick:

Provided for your information is an enclosure containing the subject minutes. Significant progress was made during this discussion, with the regulatory agencies identifying several key areas of concern. All of these will be addressed, and we remain enthused about the success of the Pilot Study to date. Your continued support for the efforts at Site 16 is appreciated. Please contact myself at (619) 532-0784 or Mr. Marc Smits at (619) 0793 with any questions concerning the site.

Sincerely,

DEAN GOULD  
Base Realignment and Closure  
Environmental Coordinator  
By direction of the Commander

Enclosure: 1. MCAS El Toro IRP Site 16 meeting Minutes of 09 January 2001

Copy to: (w/encl)  
Ms. Nicole Moutoux, U.S. EPA  
Ms. Triss Chesney, DTSC



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Ms. Triss Chesney  
California Environmental Protection Agency  
Department of Toxic Substances Control  
5796 Corporate Avenue  
Cypress, CA 90630-4700

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Dear Ms. Chesney:

Provided for your information is an enclosure containing the subject minutes. Significant progress was made during this discussion, with the regulatory agencies identifying several key areas of concern. All of these will be addressed, and we remain enthused about the success of the Pilot Study to date. Your continued support for the efforts at Site 16 is appreciated. Please contact myself at (619) 532-0784 or Mr. Marc Smits at (619) 0793 with any questions concerning the site.

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Mr. John Broderick, Cal RWQCB, Santa Ana Region



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Ms. Nicole Moutoux  
U.S. Environmental Protection Agency  
Region IX, (SFD 8-2)  
Hazardous Waste Management Division  
75 Hawthorne Street  
San Francisco, CA 94105-3901

Subj: MCAS El Toro IRP Site 16 Conference Call Minutes of 09 January 2001

Dear Ms. Moutoux:

Provided for your information is an enclosure containing the subject minutes. Significant progress was made during this discussion, with the regulatory agencies identifying several key areas of concern. All of these will be addressed, and we remain enthused about the success of the Pilot Study to date. Your continued support for the efforts at Site 16 is appreciated. Please contact myself at (619) 532-0784 or Mr. Marc Smits at (619) 0793 with any questions concerning the site.

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Mr. John Broderick, Cal RWQCB, Santa Ana Region

**Summary of IRP Site 16 Modifications Conference Call**  
**Marine Corps Air Station, El Toro**  
**9 January 2001 at 10 a.m.**

**Attendees**

Marc P. Smits – Navy, Remedial Project Manager (RPM)  
John Scholfield – Bechtel National Incorporated, Contract Task Order Leader  
John Broderick – Regional Water Quality Control Board (RWQCB), RPM  
Triss Chesney – Department of Toxic Substances Control (DTSC), RPM  
Laszlo Saska – DTSC, Engineering Support Group

**Meeting Minutes**

- Mr. Smits began by stating the purpose of this meeting was to provide an overview of the modifications to be implemented for the Site 16 Multi-Phase Extraction (MPE) Pilot Study and answer any questions from the BCT before beginning the fieldwork for the modifications. The modifications were first presented to the Base Closure Team (BCT) at the 29 November 2000 BCT meeting. A letter dated 6 December 2000 provided the rationale and location for the proposed modifications including two figures with wells to be modified. Subsequently, DTSC and RWQCB RPMs indicated they had some additional comments and/or questions on the proposed modifications.
- Mr. Scholfield provided a background of the overall Site 16 Pilot Study investigation including the groundwater and soil vapor extraction test that were conducted prior to the MPE testing. He stated that approximately 52 pounds of trichloroethene (TCE) have been removed from the vadose zone since the pilot test was initiated. The overall estimate for the amount of TCE in the soil was 60 pounds. Additional evidence of the effectiveness of the system is that the plotted curve for extracted soil vapor TCE concentrations appears to have reached asymptotic levels at approximately 30 µg/L.
- Mr. Schofield presented the objectives of the proposed modifications to the pilot study. These modifications are intended to increase the overall radius of influence of the vapor extraction, increase the drawdown of the groundwater in the main fire fighting pit area, and decrease the travel time for capture of soil gas near the perimeter of the pit area.
- A figure showing the location of the wells to be used in the modifications as well as the estimated effective radius of influence was submitted to the conference call participants prior to the meeting. Mr. Scholfield gave a description of the technical rationale for why the wells are being used for groundwater and/or vapor extraction. Wells 16MW6 and 16MW1 were selected for groundwater extraction because they are located in the main pit and the additional drawdown of groundwater may increase soil gas removal in the saturated zone. Wells 16MW6 and 16MW7 were selected for vapor extraction to capture any soil vapor on the western edge of the main pit (16MW6) and remove any residual soil vapor at the residual fluids pit (16MW7). In addition, extracting soil vapor from these locations will provide assurance that TCE in soil vapor has not migrated off-site unchecked.

- Mr. Scholfield indicated that the fieldwork for the implementation of the modifications would begin on Wednesday, 10 January 2001 and includes installation of two groundwater pumps and connecting the wells to the existing treatment systems.
- Mr. Smits asked Mr. Broderick if he had any questions regarding the information presented by Mr. Scholfield. Mr. Broderick stated that in regards to the ultimate completion of the pilot study, the RWQCB does not agree with the use of a mixing zone for the calculation of a threshold value that would not impact future loading of the groundwater. Mr. Smits asked if there were other appropriate methods for calculating a threshold value. Mr. Broderick indicated there are different models that can be used to determine a threshold value for soil gas concentration.
- Mr. Broderick stated that the wells were not designed as extraction wells and were not constructed with the filter pack that the RWQCB had recommended during the work plan stage. He also indicated that the total petroleum hydrocarbons in the soil have not been addressed and may require additional investigation under the petroleum corrective-action program.
- Ms. Chesney reiterated that DTSC does not agree with the use of a mixing zone for the calculation for the soil vapor threshold value. Mr. Smits stated that the contractor and the Navy would investigate different approaches to calculating the threshold value and discuss this subject further with the BCT.
- Mr. Saska stated that if additional data had been provided to the regulators, it would have been easier to evaluate the proposed modifications. As presented, he did not have any additional comments on the modifications.
- Mr. Smits asked the regulators if the Navy could begin the fieldwork for the modifications. DTSC and RWQCB representatives agreed to the proposed modifications but indicated that the threshold value for soil gas levels still needs to be addressed. Mr. Smits agreed that the comments regarding threshold value needs to be addressed with the BCT.
- Mr. Smits thanked the regulators for their input and informed the participants that the fieldwork for the modifications would begin the next day.